PATENT COOPERATION TREATY

From the NTERNATIONAL SEARCHING AUTHORITY			an,
'o:			PCT PCT
			ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY
	į		(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	
Applicant's or agent's file reference		FOR FURTHER A	CTION See paragraph 2 below
International application No. International filir PCT/RU2004/000030 03.02.2		day/month/year)	Priority date (day/month/year) 18.08.2003
International Patent Classification (IPC) or both national classific	ation an	d IPC	
Applicant OBSCHESTVO S OGRANICHENNOI OT	TVET	STVENNOSTY	U FIRMA RADIUS-SERVIS
Box No. IV Lack of unity of invention	n with re- ule 43bis xplanatio tional ap nternatio tion is r A") exce is notifie ons deen	gard to novelty, invent (a)(i) with regard to ons supporting such state optication onal application ande, this opinion wi pt that this does not ap d the International But d. cn opinion of the IPE. before the expiration	ill be considered to be a written opinion of the ply where the applicant chooses an Authority other reau under Rule 66.1 bis(b) that written opinions of A, the applicant is invited to submit to the 1PEA and 3 months from the date of mailing of Form
Name and mailing address of the ISA/RU		Authorized officer	
Facsimile No.		Telephone No.	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/RU2004/000030

Box No. I	Basis of this opinion			
With re filed, ur	gard to the language, this opinion has been established on the basis of the international application in the language in which it was dess otherwise indicated under this item.			
Пт	his opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under			
R	ule 12.3 and 23.1(b)).			
	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed in, this opinion has been established on the basis of:			
a. ty	pe of material			
	a sequence listing			
	table(s) related to the sequence listing			
b. fo	rmat of material			
Г	in written format			
Ē	in computer readable form			
c. ti	ne of filing/furnishing			
Г	contained in the international application as filed.			
Ē	filed together with the international application in computer readable form.			
F	furnished subsequently to this Authority for the purposes of search.			
3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4. Additio	nal comments:			
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International application No.
PCT/RU2004/000030

No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
YES				
NO				
YES				
NO NO				
YES				
NO NO				

2. Citations and explanations:

The following documents are cited in the search report:

D1: RU 2186923 C2

D2: SU 905411 A

D3: RU 2103474 C1

D4: RU 2115792 C1

D5: US 4745982 A

D6: US 5343966 A

D1 is the prior art closest to the device according to claim 1.

An adjuster of angle and reactive moment of a gerotor motor with spindle and drill bit in a bent string of drill pipes is known from D1, consisting of a central hollow element to which are connected three hollow tubular non-uniaxial elements, each of which has an through inner hole. The inner hollow element is located in the centre between the first and second elements, and the first and second tubular elements are connected to the inner hollow element with use of thread. The first hollow tubular element is connected by thread to the spindle, the second hollow tubular element is connected by thread to the engine housing, the

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

central hollow element is connected to the inner hollow element by grooves.

The device according to claim 1 differs from the known device in that the central hollow element and the first hollow tubular element in the plane of bend of the drill pipe string have contact segmental sections situated on opposite sides with respect to the meridian plane of the spindle. The distance between the near-in edges of the contact segmental sections along the central axis of the first hollow tubular element is equal to or greater than the outer diameter of the spindle. The contact segmental section of the first hollow tubular element is turned in the meridian plane of the spindle in the opposite direction with respect to the effect of the reactive moment from the drill bit.

These distinctive features are not known from the prior art, and therefore the claimed adjuster of angle and reactive moment of a gerotor motor with spindle and drill bit in a bent drill pipe string according to claims 1-2 meets the requirements of novelty and inventive step.

Claims 1-2 meet the requirement of industrial applicability.